

Clarion

Owner's manual

使用说明书

사용 설명서

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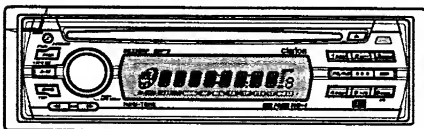
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COMPACT
disc
DIGITAL AUDIO

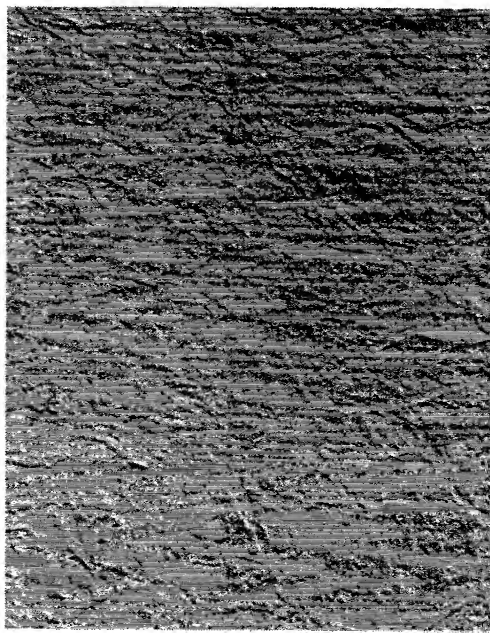


DB336MP

AM/FM CD/MP3 PLAYER

•
AM/FM CD/MP3 唱机

•
AM/FM CD/MP3 플레이어



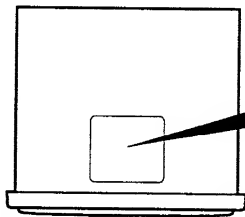
1. PRECAUTIONS

1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour and the condensation will disappear naturally to allow normal operation.
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

⚠ CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.



Bottom View of Source Unit

MODEL

DB336MP

clarion

12V \ominus GROUND

AM

531-1629kHz

FM

87.0-108 MHz

PE-2602K

285-9999-00

Clarion Co., Ltd.

MADE IN MALAYSIA

051 722 877

SERIAL No.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

Be sure to unfold and read the next page.

请务必展开并阅读下一页。

반드시 다음 페이지를 펴서 읽으십시오.

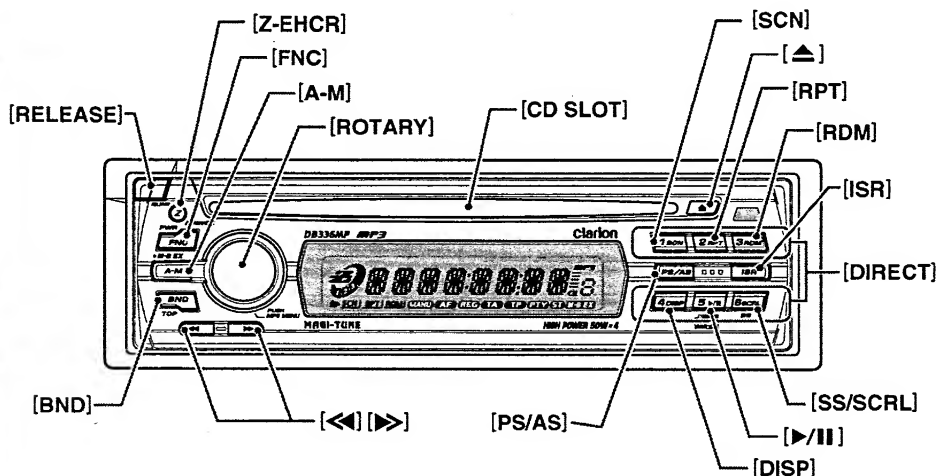
2. CONTROLS / 控制 / 제어부

Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter.

注意: 阅读各章时请务必展开此页并阅读前面的图。

주: 반드시 이 페이지를 펴서 각 장을 읽을 때 앞면 도표를 참고하십시오.

SOURCE UNIT / 主机 / 헤드유닛



DISPLAY

显示窗

디스플레이



Note: The above illustration shows the front panel of the model DB336MP.

注意: 上图为机型 DB336MP 的前面板。

주: 위 그림은 모델 DB336MP 의 앞면 패널을 표시한 것입니다.

3. BUTTON TERMINOLOGY

Note:

- Be sure to read this chapter referring to the front diagrams of chapter 2. CONTROLS on page 3 (unfold).

Names of the Buttons and their Functions

[RELEASE] button

- Press the [RELEASE] button to unlock the DCP.

[Z-EHCR] button

- Use the button to select one of the three types of sound characteristics already stored in memory. (Z-Enhancer)

[FNC] button

- Press the button to turn on the power. Press and hold the button for 1 second or longer to turn off the power.
- Switches the operation mode among the radio mode, etc.

[A-M] button

- Press and hold the button for 1 second or longer to switch the MAGNA BASS EX on/off.
- Use the button to switch to the audio mode (bass/treble, balance/fader)

[ROTARY] knob

- Adjust the volume by turning the knob clockwise or counterclockwise.
- Use the knob to perform various settings.

[CD SLOT]

- CD insertion slot.

[SCN] button

- Performs scan play for 10 seconds for each track while in the CD mode.

[▲] button

- Ejects a CD when it is loaded into the unit.

[RPT] button

- Plays repeatedly while in the CD mode.

[RDM] button

- Performs random play while in the CD mode.

[ISR] button

- Recalls ISR radio station in memory.
- Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only).

[DIRECT] button

- Stores a station into memory or recall it directly while in the radio mode.

[SS/SCRL] button

- Press the [SS/SCRL] button while keeping the [BND] button pressed, to turn the screen saver function on or off.
- (MP3 Function) Press [SS/SCRL] to scroll Display data which contents more than 8 characters at Title Display.

▶/|| button

- Plays or pauses a CD while in the CD mode.

[DISP] button

- Press the [DISP] button while keeping the [BND] button pressed, to switch the display indication (Main display, clock display).

MP3 Function-DISPLAY SELECTION

- Press the [DISP] button (MP3 mode) to switch between Track No/Play time → Folder No/Track No → Title Display → Track No/Play time.

[PS/AS] button

- Performs preset scan while in the radio mode. When the button is pressed and held, auto store is performed.

[◀][▶] button

- Selects a station while in the radio mode or selects a track when listening to a CD.
- Press and hold the button for 1 second or longer to switches the fast-forward/fast-backward.


[BND] button

- Switches the band, or seek tuning or manual tuning while in the radio mode.
- Plays a first track while in the CD mode.

4. FEATURES

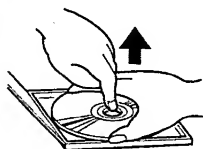
- Rotary Encoder Volume Control
- Z-Enhancer with 3 Mode Sound Selector
- MAGNA BASS EX
- **MAGI-TUNE®** FM Reception System
- Seek/Manual Up/Down Tuning
- 4-Times Oversampling Digital Filter and Dual 1-Bit D/A Converters
- Preset Station Scan (PS), Automatic Store (AS)
- 2-Channel RCA Line Level Output
- AM 1 band, FM 3 bands each 6 channels total 24 channels, Preset Memory Function
- Repeat/Random Play/Intro Music Scan
- 200W (50 W × 4) Maximum Power Output
- MP3 Function

5. HANDLING COMPACT DISCS

This unit has been designed specifically for playback of compact discs bearing the  mark. No other discs can be played.

To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

Removing the disc

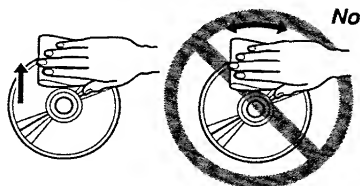


Proper way to hold the compact disc

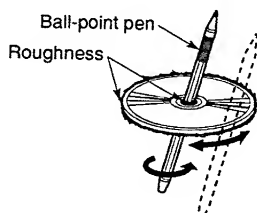


Always handle the compact disc by the edges. Never touch the surface.

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.

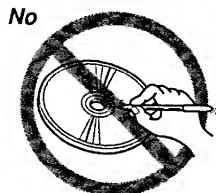


New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen, etc. to remove roughness from the edge of the disc.

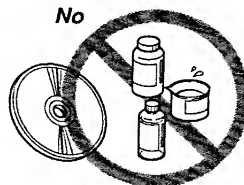


Note on Compact Discs

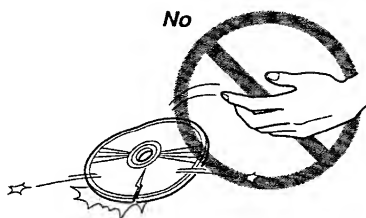
Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.



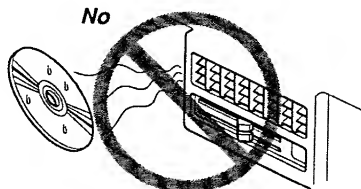
Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.



Do not use compact discs that have large scratches, are misshapen, or cracked, etc. Use of such discs will cause misoperation or damage.



Do not expose compact discs to direct sunlight or any heat source.



Note:

- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may get caught in the internal mechanism and damage the disc.

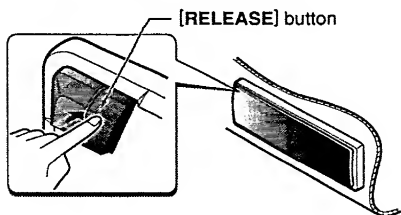
6. DCP (Detachable Control Panel)

The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (DETACHABLE CONTROL PANEL) case to prevent scratches.

We recommend taking the DCP with you when leaving the car.

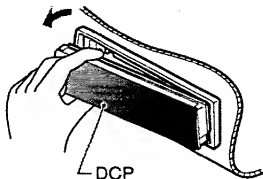
Removing the DCP

1. Press the [FNC] button for 1 second or longer to switch off the power.
2. Press in the [RELEASE] button.



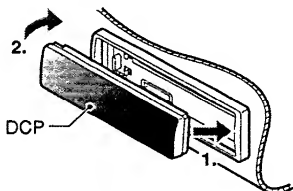
* The DCP is unlocked

3. Remove the DCP.



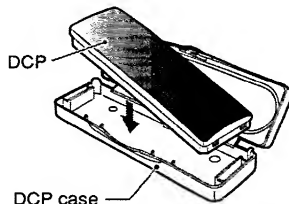
Attaching the DCP

1. Insert the right side of the DCP into the main unit.
2. Insert the left side of the DCP into the main unit.



Storing the DCP in the DCP Case

Hold the DCP, in the orientation as shown in the figure below, and put it into the supplied DCP case. (Ensure the DCP is in the correct orientation.)

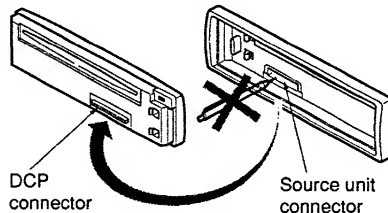


CAUTION

- The DCP can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the DCP is unlocked, the car's vibrations may cause it to fall. To prevent damage to the DCP, always store it in a protective case after detaching it.
- The rear connector that connects the source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.

DCP Rear Panel

Source Unit Front

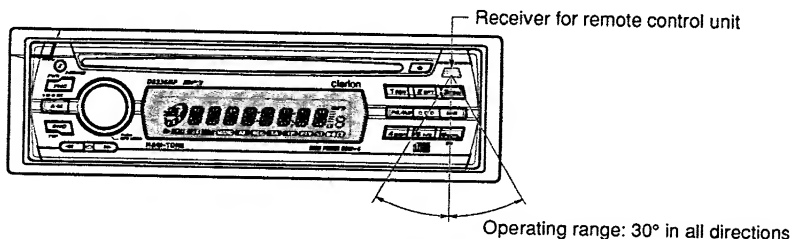


Note:

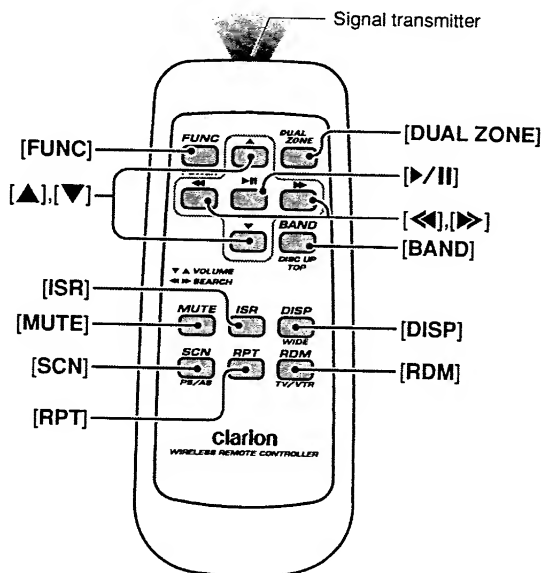
- If the DCP is dirty, wipe off with a soft, dry cloth only.

7. REMOTE CONTROL

If you buy the RCB-164, sold separately, you can enjoy the use of the remote control function.



Remote Control Unit



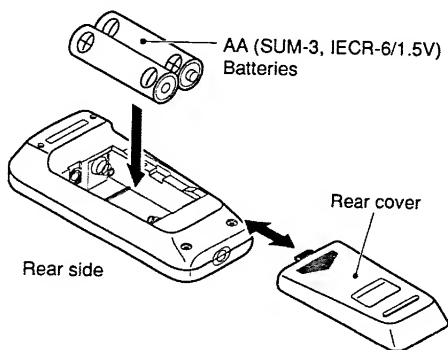
Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.
2. Insert the AA (SUM-3, IECR-6/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.

Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- When replacing batteries, replace both batteries with new ones.
- Do not short-circuit, disassemble or heat batteries.
- Do not dispose of batteries into fire or flames.
- Dispose of spent batteries properly.



Functions of Remote Control Unit Buttons

Mode Button	Radio	CD	MP3
[FUNC]	Turns power on and off. When pressed and held for 1second: Turns power off. Switches between radio and CD/MP3.		
[BAND]	Switches reception band.	Plays the first track. Top play.	
[▲] , [▼]	Increases and decreases volume (in all modes).		
[◀] , [▶]	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	
[▶/II]	Turns mute on and off.	Switches between playback and pause.	
[MUTE]	Turns mute on and off.	Switches between playback and pause.	
[ISR]	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only).		
[DISP]	Switches among main display, clock display.		
[SCN]	Preset scan. When pressed and held for 2 seconds: Auto store.	Scan play.	Scan play. When pressed and held for 1 seconds: Folder scan.
[RPT]	No function.	Repeat play.	Repeat play. When pressed and held for 1 seconds: Folder repeat.
[RDM]	No function.	Random play.	Random play. When pressed and held for 1 seconds: Folder random.

* Some of the corresponding buttons on the main unit and remote control unit have different functions.

* DUAL ZONE button is not available.

8. OPERATION

Note:

- Be sure to read this chapter referring to the front diagrams of chapter 2. CONTROLS on page 3 (unfold).

Basic Operations

CAUTION

When this unit is turned on, starting and stopping the engine of a car with its volume raised to the maximum level may harm your hearing. Be careful about adjusting the volume.

Turning ON the Power and Adjusting the Volume

- 1) Press the [FNC] button.
 - * To turn off the power, press the [FNC] button for 1 second or longer.
- 2) Press the [FNC] button and select another operation mode. Every time the [FNC] button is pressed, the display changes the operation mode as:
Radio → CD → Radio

Notes:

- The operation mode not connected to the unit will not be selected.
 - If the CD mode is selected when no disc is inserted, the display flashes "NO DISC".
- 3) Turning the [ROTARY] knob clockwise increases the volume; turning it counterclockwise decreases the volume.
 - * The volume level is from 0 (minimum) to 33 (maximum).

Audio Mode Adjustments

Press the [A-M] button to select the adjustment mode. The mode switches as follows each time the [A-M] button is pressed:

BASS → TREB → BAL → FAD → Previous mode

MAGNA BASS EX on and off

- 1) Press and hold the [A-M] button for 2 seconds or longer, then the Bass will extra boost.

Note:

- MAGNA BASS EX effect depend on volume level.

Adjusting the Bass

- 1) Press [A-M] button and select "BASS".
- 2) Turning the [ROTARY] knob clockwise emphasizes the bass; turning it counterclockwise attenuates the bass.
 - * The factory default setting is "0". (Adjustment range: -7 to +7)
- 3) When the adjustment is complete, press [A-M] button several times until the function mode is reached.

Adjusting the Treble

- 1) Press [A-M] button and select "TREB".
- 2) Turning the [ROTARY] knob clockwise emphasizes the treble; turning it counterclockwise attenuates the treble.
 - * The factory default setting is "0". (Adjustment range: -7 to +7)
- 3) When the adjustment is complete, press [A-M] button several times until the function mode is reached.

Adjusting the Balance

- 1) Press [A-M] button and select "BAL".
- 2) Turning the [ROTARY] knob clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.
 - * The factory default setting is "0". (Adjustment range: L13 to R13)
- 3) When the adjustment is complete, press [A-M] button several times until the function mode is reached.

Adjusting the Fader

- 1) Press [A-M] button and select "FAD".
- 2) Turning the [ROTARY] knob clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.
 - * The factory default setting is "0". (Adjustment range: F12 to R12)
- 3) When the adjustment is complete, press [A-M] button several times until the function mode is reached.

Notes:

- Bass and Treble can only be adjusted when the "Z-enhancer" is off.

Setting the Z-enhancer

This unit comes with three types of sound tone effects stored in memory. Select the one you prefer.

* The factory default setting is "Z-EHCR OFF".

Each time you press [Z-EHCR] button, the tone effect changes in the following order.

"Z-ENHANCER 1" → "Z-ENHANCER 2" →

"Z-ENHANCER 3" → "Z-EHCR OFF" →

"Z-ENHANCER 1"...

- Z-ENHANCER 1: bass emphasized
- Z-ENHANCER 2: treble emphasized
- Z-ENHANCER 3: bass and treble emphasized
- Z-EHCR OFF: no sound effect

Switching the Clock Display

Press and hold the [BND] button, and then press the [DISP] button to switch between the operation mode and the clock display.

Setting the Clock

- 1) Press and hold the [BND] button, and then press the [DISP] button to display the clock display.
- 2) Press and hold the [BND] button, and then press the [DISP] button for 2 seconds or longer.
- 3) Press the [▶▶] button, then set the current minute.
- 4) Press the [◀◀] button, then set the current hour.
- 5) Press the [BND] button, then the clock is set.

Notes:

- If you select another operation mode while you are setting the clock, the clock setting operation will be canceled.
- If you remove the vehicle's battery for a check or repair, the clock will be reset, so you must set it again.

Screen Saver mode

- 1) Press and hold the [BND] button, and then press the [SS/SCRL] button to switch on, and off Screen saver mode.

* The factory default setting is "SS ON".

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

* This function is not compatible with all cellular telephones. Contact your local authorized Clarion dealer for information on proper installation and compatibility.

* The factory default setting is "TEL OFF".

Press and hold the [BND] button, and then press the [▶/II] to select the "TEL ON", "TEL L", "TEL R" or "TEL OFF".

TEL MUTE: mutes the audio sound.

TEL L: front left speaker output telephone audio.

TEL R: front right speaker output telephone audio.

TEL OFF: does not mute the audio sound.

→TEL MUTE→TEL L→TEL R→TEL OFF

Radio Mode Operations

FM Reception

For enhanced FM performance the **MAGI-TUNE®** tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Listening to the Radio

- 1) Press the [FNC] button to select the radio mode, then the radio will be on.
- 2) To select a preset band, press the [BND] button, then select one of the preset bands such as FM1, FM2, FM3, or AM. Every time the [BND] button is pressed, the display will change as:
FM1 → FM2 → FM3 → AM → FM1
- 3) Press the [◀◀][▶▶] button, then the station at which there is a broadcast will be selected (Seek selection).

Manual Tuning

- 1) Press the [BND] button, then select FM1, FM2, FM3 or AM.
- 2) Press and hold the [BND] button for 1 second or longer, then the display will show "MANU", which means that a manual selection function is on.
- 3) Press the [◀◀][▶▶] button and select the right station.

Seek Tuning

- 1) Press the [BND] button, then select FM1, FM2, FM3 or AM.
- 2) If the "MANU" on the display is on, press and hold the [BND] button for 1 second or longer.

When the "MANU" display is off, the seek selection function is on.

- 3) Press the [◀][▶] button, then when it selects the station in which there is a broadcast, it automatically stops.

Preset Memory Function

Preset Memory Function can store up to 24 stations: six stations for each of FM1, FM2, FM3 and AM.

Note:

- When the preset memory function is used, all the content of the memory will be erased.

Manual memory function

- 1) Press the [BND] button, and select the band you want to store in the memory.
- 2) Press the [◀][▶] button then select the station you want to store in the memory.
- 3) Press and hold the [DIRECT] button for 2 seconds or longer, then the station will be stored in the memory.

Auto store function (Automatic Station Store)

- 1) Press the [BND] button, then select the band you want to store in the memory.
- 2) Press and hold the [PS/AS] button for 2 seconds or longer, then the station at which the reception is the strongest will be automatically stored in the memory.

Note:

- When the number of stations stored is less than six, the previous content of the memory for each direct button will be retained.

Preset Scanning (Preset Station Scan)

When the [PS/AS] button is pressed, the "SCN" will indicated preset memory numbers and the stations are tuned in for 7 seconds each in the order in which they were stored. Press the [PS/AS] button again to cancel the preset scanning mode.

Instant Station Recall (ISR)

With this function, a specific radio station can be recalled from any mode.

ISR memory

- 1) Press the [FNC] button, then select the radio mode.
- 2) Select the radio station which you want to store in the memory.
- 3) Press and hold the [ISR] button for 2 seconds or longer.

Recalling ISR

Press the [ISR] button then the display will show "ISR", then the radio station previously memorized will be selected. Press the [ISR] button again to disengage the unit from the Recalling ISR function.

Area Change

Use this function when you are using the car stereo anywhere outside the U.S.

Switchable frequency spacing

This car stereo is initially set to tune in frequency intervals of 9 kHz for AM and 50 kHz for FM, the standard calibrations outside the U.S. When using the unit in the U.S., use the following procedure to switch the frequency range.

The table below lists the frequency specifications for the U.S. and other countries.

		Initial Setting (outside U.S.)	New Setting (U.S. standard)
AM	Frequency spacing	9 kHz	10 kHz
	Frequency range	531 to 1,602 kHz	530 to 1,710 kHz
FM	Frequency spacing	50 kHz	200 kHz
	Frequency range	87.0 to 108 MHz	87.9 to 107.9 MHz

Switching the area change

Outside U.S. (Initial Setting)

While pressing the [A-M] button, press the [RPT] button, then "outside U.S." will be selected.

Inside U.S. standard (New Setting)

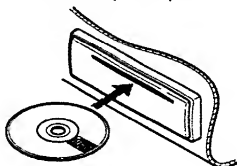
While pressing the [A-M] button, press the [SCN] button, then the "U.S. standard" will be selected.

CD Mode Operations

Loading a Disc

Insert the disc into the CD insertion slot with its label side up, then the CD will start playing.

For 5-inch (12 cm) CD



Notes:

- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Caution:

- Single CD (3" (8 cm)), cannot be played with the unit.

Listening to the Disc already Inserted

Press the [FNC] button to select the CD mode, the CD will start playing.

Stopping (pausing) Playback

Press the [▶/II] button.

Press the [▶/II] button again to resume playback.

Ejecting the CD

Press the [▲] button, then the CD will be ejected.

Note:

- If the ejected CD is left as it is, it will be reloaded after 15 seconds.

Top Function

Press the [BND] button, then the CD will start playing from the first song (track number 1).

Selecting Tracks (songs)

Press the [◀][▶] button.

▶▶: Playback will start from the next track.

◀◀: Playback will start from the beginning of the track currently playing. When this button is pressed again, the CD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the [◀][▶] button.

▶▶: To fast-forward

◀◀: To fast-backward

* Pressing the [◀][▶] button for 1 second or longer will move forward or backward 3 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

Press the [SCN] button, then the display shows "SCN", then the CD will play the first 10 seconds of each track of the whole disc. Press the [SCN] button again to disengage the unit from scan play.

* A scan play will start from the track following the one currently playing.

Repeat Play

Press the [RPT] button, then the display shows "RPT", then the track currently playing will be played repeatedly. Press the [RPT] button again to disengage the unit from repeat play.

Random Play

Press the [RDM] button, then the display will show "RDM", then the entire tracks on the disc will be played at random. Press the [RDM] button again to disengage the unit from random play.

CD MP3 Mode Operations

Loading a Disc

Insert a CD into the center of the CD insertion slot with the labeled side facing up. "LOAD" appears in the display, the CD enters into the slot and start playing.

Notes:

- Do not put your hand, fingers, or foreign objects into the CD insertion slot.
- If a CD has already been loaded, another CD cannot be inserted. Do not insert another one forcefully.
- Discs not bearing the **UDC** mark cannot be played with the unit. CD-ROMs cannot be played.
- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Caution:

- Single CD (3" (8 cm)), cannot be played with the unit.

Listening to the Disc already Inserted

Press the [FNC] button to select the CD mode, the CD will start playing.

Stopping (pausing) Playback

While the CD playing pressing the [▶/II] button will stop the CD and "PAUSE" indicate.

Press the [▶/II] button again to resume playback.

Ejecting the CD

Press the [▲] button, then the CD will be ejected.

Note:

- If the ejected CD is left as it is, it will be reloaded after 15 seconds.

Top Function

Press the [BND] button, then the CD will start playing from the first song (track number 1).

Selecting Tracks (songs)

Press the [◀][▶] button.

- ▶: Playback will start from the next track.
- ◀: Playback will start from the beginning of the track currently playing. When this button is pressed again, the CD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the [◀][▶] button.

- ▶: To fast-forward
- ◀: To fast-backward

* Pressing the [◀][▶] button for 1 second or longer will move forward or backward 3 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

At Audio CD press the [SCN] button, then the display shows "SCN", then the CD will play the first 10 seconds of each track of the folder. Press the [SCN] button again to disengage the unit from scan play.

* A scan play will start from the track following the one currently playing.

Repeat Play

At Audio CD press the [RPT] button, then the display shows "RPT", then the track currently playing will be played repeatedly. Press the [RPT] button again to disengage the unit from repeat play.

Random Play

At Audio CD press the [RDM] button, then the display will show "RDM", then the entire tracks on the folder will be played at random. Press the [RDM] button again to disengage the unit from random play.

MP3 Special Function Menu

- 1) When playing an MP3 CD, press the [ROTARY] button to display the MP3 Special Function Menu.
- 2) There are 4 functions in the Special Function Menu.
1)FLD UP: DN → 2)No SRCH → 3)MP3 SEL → 4)MP3 SRCH
- 3) To go to the next function, press the [ROTARY] button again.
- 4) When a function is selected, turn the [ROTARY] button clockwise or counterclockwise to activate it. At this Special Function Menu, all the channel keys CH1 to CH6 are inoperable.

Note:

- The Special Function Menu can be released by pressing the [ROTARY] button for 2 seconds or longer, or it will be released automatically after 7 seconds.

FLD UP: DN – Folder Up Down Function

- 1) This function enables you to search for a folder on the MP3 CD. The LCD will show the target MP3 CD folder.

Turn clockwise. – Folder up

Turn counterclockwise. – Folder down

- 2) When a desired folder is selected, the MP3 CD player will play it.

Note:

- The Special Function Menu can be released by pressing the [ROTARY] button for 2 seconds or longer, or it will be released automatically after 7 seconds.

No SRCH – Search Track

- 1) This function enables you to search for a desired track by the specified track number on the MP3 CD to allow the MP3 CD player to directly go to it for play during MP3 CD play.
- 2) When this function is activated, the LCD will display "No 0" and the start character blinking is 0. The character changes from 0 to 9. To search for a track, you have to select 3 characters.

After selecting the first character, press the [ROTARY] button to go to the second character.

Turn clockwise. – Increase the number character.

Turn counterclockwise. – Decrease the number character.

Target track: 5 → Characters: 005

Target track: 59 → Characters: 059

Target track: 598 → Characters: 598

- 3) If the selected track number is 000, the MP3 CD player will play the first track.
- 4) If the selected track number is larger than the number of tracks contained in the CD, the player will play the last track.

Note:

- The Special Function Menu can be released by pressing the [ROTARY] button for 2 seconds or longer, or it will be released automatically after 7 seconds.

MP3 SEL – File search Function

- 1) This function enables you to select a file from the whole CD by reading the folder name and file name without stopping CD during MP3 CD play.
- 2) To activate this function, turn the [ROTARY] button clockwise or counterclockwise until the LCD displays M-SEL ON.
- 3) When the function is activated, the LCD displays the MP3 CD folder then MP3 track currently being played.

The file name will be displayed for 1.3 seconds and then start scrolling. The MP3 SEL function will be released automatically unless the next command is executed in 15 seconds.

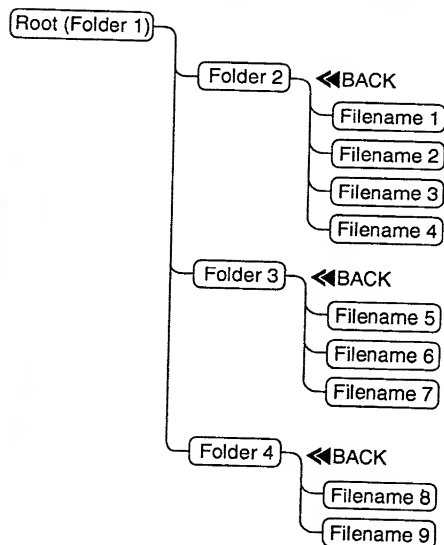
Turn clockwise. – Track up

Turn counterclockwise. – Track down or back.

- 4) To exit from the current folder, turn the [ROTARY] button counterclockwise and press the [ROTARY] button when there is ◀BACK display on the LCD screen.

	Display	Pressing [ROTARY] Button	Description
1	F>	Open Folder	Indicates this is a folder
2	File Name	Play current file	Indicates this is a file name
3	◀BACK	Exit current Folder	Indicates this is the top of the folder

Display chart at MP3 SEL mode.



Example:

- 1) If you are at File name 2 and want to go to File name 6, exit Folder 2 and enter Folder 3 to search for File name 6.
- 2) The Special Function Menu can be released by pressing the [ROTARY] button for 2 seconds or longer, or it will be released automatically after 7 seconds.

MP3 SRCH – Search File Function

- 1) This function enables you to search a desired folder and track by selecting the characters on the MP3 CD.
- 2) When this function is on, the LCD will display "SCH> " and the start character blinking is " " which is a blank character. The character changes start from 0 to 9 for number display and A to Z for capital letter display, and starts from " " again if you turn the [ROTARY] button clockwise. The character changes from Z to A and 9 to 0 and starts from " " again if you turn the [ROTARY] button counterclockwise.
- 3) To search for a file, you have to select 4 characters. After selecting the first character, press the [ROTARY] button to go to the second character.

- 4) When the last character of the file name is selected by pressing, the MP3 CD player will start searching for the file. If you enter " ", the player will be unable to find the file and show "NOTFOUND" on the LCD.
- 5) If the file or folder is found, the MP3 CD player will display the found folder with the "F>" sign or the filename without any sign.
- 6) If the file is not found, "NOTFOUND" will be displayed. If you enter a folder name, the MP3 CD player will function in the MP3 SEL mode to allow you to select an MP3 file from the whole MP3 CD.
- 7) The Special Function Menu will be released by pressing the [ROTARY] button for 2 seconds or longer, or it will be released automatically after 15 seconds.

	Display	Pressing [ROTARY] Button	Description
1	F>	Open Folder	Indicates this is a folder
2	File Name	Play current file	Indicates this is a file name
3	<<BACK	Exit current Folder	Indicates this is the top of the folder

RANDOM MP3 CD

- 1) This function enables you to play all the tracks on the disc or in the MP3 folder in random order.
- 2) There are 2 types of random play accessible for MP3 CDs; Random track and Random folder.

RDM access	Function	Display
Press [RDM] button (CH3) less than 2 seconds	Random in current folder	RDM indicator
Press [RDM] button (CH3) more than 2 seconds	Random all folder	Folder & RDM indicator

- 3) Each time the button is pressed, random play turns on or off.
- 4) When the random play function is on, the RDM indicator will be displayed. When the function is off, the indicator will not be displayed.

REPEAT MP3 CD

- 1) This function enables you to replay the track or folder you are listening to.
- 2) There are 2 types of repeat play accessible for MP3 CD; Repeat track and Repeat folder.

RPT access	Function	Display
Press [RPT] button (CH2) less than 2 seconds	Repeat current song	RPT indicator
Press [RPT] button (CH2) more than 2 seconds	Repeat current folder	Folder & RPT indicator

- 3) Each time the button is pressed, repeat play turns on or off.
- 4) When the repeat play function is on, the RPT indicator will be displayed. When the function is off, the indicator will not be displayed.

SCAN MP3 CD

- 1) This function enables you to play the first 10 seconds of each track in the MP3 mode.
- 2) When this function is on, the indicator will be displayed. When this function is off, the indicator will not be displayed.
- 3) There are 2 types of scan play accessible for MP3 CD; Scan disc and Scan folder.

SCN access	Function	Display
Press [SCN] button (CH1) less than 2 second	Scan in current folder	SCN indicator
Press [SCN] button (CH1) more than 2 second	Scan all folder	Folder & SCN indicator

- 4) Each time the button is pressed, scan play turns on or off.
- 5) When the scan play function is on, the SCN indicator will be displayed. When the function is off, the indicator will not be displayed.

DISPLAY SELECTION

- 1) You can choose the display type for MP3 CD by pressing the [DISP] (CH4) button. To go to the next type, press the [DISP] (CH4) button again.

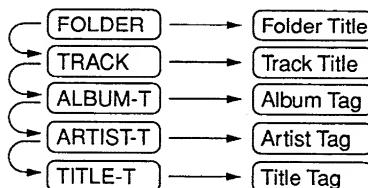
The arrangement is shown below.

****Please refer to figure 1**

TITLE DISPLAY MODE

- 1) There are 5 types of display for the Title Display mode.
- 2) To go to the next type, press the [DISP] (CH4) key for 1 second or longer. The arrangement is shown below.

After 2 seconds

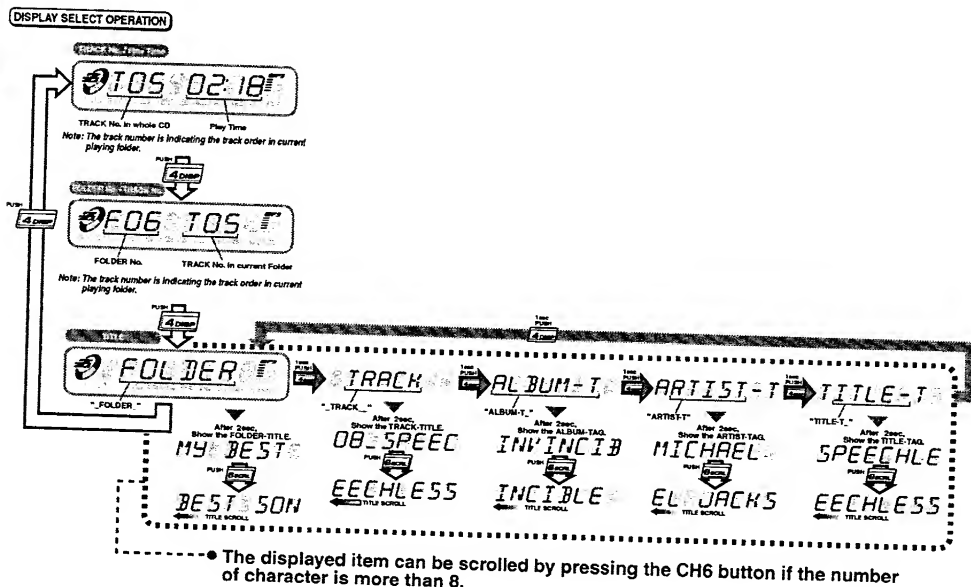


- 3) The displayed item can be scrolled by pressing the CH6 button if the number of characters is more than 8.
- 4) After the main display is shown for 4 seconds and if the CD mechanism is still decoding the data, READING is shown on the LCD.

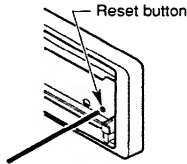
Figure 1

Display selection

You can choose the display type for MP3 CD by pressing the [DISP] (CH4) button. To go to the next type, press the [DISP] (CH4) button again. The arrangement is shown below:



9. TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your store of purchase.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Nothing happens when button are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [RELEASE] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.

10. ERROR DISPLAYS

- To protect the system, this unit has been equipped with self diagnostic functions. If a fault arises, a warning is issued by various error displays. Follow the corrective measures and remove the fault.

Error Display	Corrective Measure
ERROR 2	This error display indicates that a fault has arisen in the mechanism of the source unit (for example, the disc cannot be ejected). → Check the source unit.
ERROR 3	This error display indicates that the pickup focus is off because of a scratched disc or some other factor during source unit play. → Check the compact disc.
	This indicates that the CD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.

11. SPECIFICATIONS

FM Tuner

Frequency Range: 87.0 MHz to 108 MHz
 Usable Sensitivity: 11 dBf
 50 dB Quieting Sensitivity: 17 dBf
 Alternate Channel Selectivity: 75 dB
 Stereo Separation (1 kHz): 35 dB
 Frequency Response (± 3 dB): 30 Hz to 15 kHz

AM Tuner

Frequency Range: 531 kHz to 1,602 kHz
 Usable Sensitivity: 25 μ V

CD Player

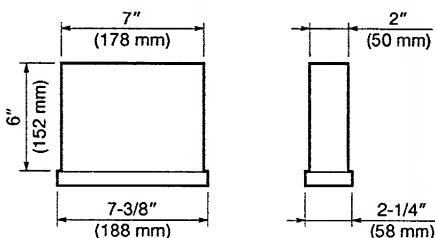
System: Compact disc audio system
 Usable Discs: Compact disc
 Frequency Response: 10 Hz to 20 kHz (± 1 dB)
 Signal-to-Noise Ratio: 100 dB (1 kHz) IHF-A
 Dynamic Range: 95 dB (1 kHz)
 Harmonic Distortion: 0.01%

Audio

Maximum Power Output:
 200 W (50 W \times 4 ch)
 Continuous Average Power Output:
 17 W \times 4, into 4 Ω , 20 Hz to 20 kHz, 1%THD
 Bass Control Action (30 Hz): ± 14 dB
 Treble Control Action (10 kHz): ± 14 dB
 Line Output (with A/C 1 kHz, 10 k Ω): 1.7 V

General

Power Supply Voltage: 14.4 V DC (10.8 V to 15.6 V allowable), negative ground
 Current Consumption: Less than 15 A
 Speaker Impedance: 4 Ω (4 Ω to 8 Ω allowable)
 Weight: 2.42 lb. (1.1 kg)
 Dimensions:
 7" (178 mm) Width \times 2" (50 mm) Height \times
 6" (152 mm) Depth



Notes:

- Specifications comply with EIA Standards.
- Specifications and design are subject to change without notice for further improvement.
- Please make sure when connecting external power amplifier, that you properly, to the car chassis, ground the amplifier.
- If this is not done, severe damage to the source unit may happen.